

Abstract of the Disclosure:

A gas seal protects the material inlet openings and material outlet openings of reactors for treating strands of material and strips of material. The openings are sealed by gas  
5 curtains. These curtains are generated by gas streams that leave gas outlet openings or nozzles and that are directed at an angle into the interior of the furnace. According to the invention, gas guide bodies, which extend adjacent the strands of material or strips of material substantially parallel to  
10 the surfaces of these strands of material and strips of material in the direction of the interior of the reactor, are mounted at the gas outlet openings. The gases leaving the gas outlet openings are guided in the gas guide spaces that are formed between the gas guide bodies and the strands or strips  
15 of material, in a targeted manner and under a slightly raised pressure in the direction of the interior of the reactor and thereby effect a significantly improved gas seal.

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